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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,722	09/26/2003	Timothy S. Dyer	2003-0048-01	9419
75	90 09/19/2006		EXAM	INER
William Cray			GOLUB, MARCIA A	
C/o Cymer, Inc. Legal Dent			ART UNIT	PAPER NUMBER

DATE MAILED: 09/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/672,722	DYER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Marcia A. Golub	2828					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available not be provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
, <u> </u>	Responsive to communication(s) filed on <u>07 September 2006</u> .						
,							
• ——	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-67 is/are pending in the application.							
4a) Of the above claim(s) 37-67 is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1,2 and 11-36</u> is/are allowed.							
•	6) Claim(s) 3-10 is/are rejected.						
•	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date .		Patent Application (PTO-152)					

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DETAILED ACTION

Response to Arguments

Applicant's arguments filed 5/18/06 have been fully considered but they are not persuasive.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the suggestion to combine comes from Bragin et al, in column 3 lines 56-65 it is disclosed that the outer portion of the electrodes can be covered with a dielectric layer.

In response to applicant's argument that the cited references solve different problem from the present invention, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).

In response to applicant's argument that the references do not disclose varying the thickness of the anodized layer, the examiner points to column 3 lines 39-42 of Sukhman where it is disclosed that the thickness ranges from 0.025 to 0.01 mm. It is an inherent property of dielectric layers to vary their impedance and resistance to erosion with the thickness.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 3-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bragin et al. (6,466,599) hereinafter '599, and further in view of Sukhman et al. (5,982,803) hereinafter '803.

Regarding claims 3-10, Fig 7d of '599 discloses:

3. "A gas discharge laser having a laser gas containing fluorine [F₂], flowing through a discharge region between an anode [56] and a cathode [48] from an upstream flow side to a downstream flow side [indicated by arrows] comprising:

an anode [56] and an up-stream fairing [58] each composed of electrically conductive material [electrodes are inherently conductive]."

'599 does not disclose that "at least the discharge receiving portion of the anode is anodized." However, '599 suggests that the outer portion of electrodes may comprise dielectric materials to prevent parasitic discharge currents and to restrict discharge width (4/62-65). Also, '803 discloses an anodized electrode in a gas laser with an aluminum oxide coating of varying thickness (3/39-42).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of '803 into the device of '599 by anodizing the electrodes for at least the purpose of preventing parasitic discharge currents.

'599 and '803 further disclose:

- 4. "the anode [56] and up-stream fairing [58] are constructed as one piece." (Fig 7d)
- 5, 6. "at least all of the surfaced of the anode and the upstream fairing that are exposed to the laser gas are anodized." The anode and the upstream fairing of '599 are exposed to the laser gas and the complete electrode of '803 is anodized.
- 7-10. "the thickness of the anodized layer on the discharge footprint of the electrode is selected according to a desired impedance and erosion resistance." '803 discloses varying the thickness of the aluminum oxide coating. The impedance and the erosion resistance inherently varies with the thickness of the coating.

Allowable Subject Matter

Claims 1, 2, 11-36 are allowed.

The reasons for allowance are indicated in the office action mailed on 1/31/06.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Info

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcia A. Golub whose telephone number is 571-272-8602. The examiner can normally be reached on M-F 9-6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun Harvey can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marcia A. Golub Assistant Examiner Art Unit 2828 Minsun Harvey Supervisor Art Unit 2828

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